

9. (Twice Amended) A probe comprising a nucleotide sequence consisting of at least twenty contiguous nucleotides of a nucleotide sequence selected from the group consisting of:

- (a) SEQ ID NO: 4084;
- (b) a complement of SEQ ID NO: 4084; or
- (c) an RNA of (a) or (b), wherein U is substituted for T.

10. (Thrice Amended) An isolated nucleic acid comprising a nucleotide sequence of at least forty nucleotides in length, wherein the sequence is hybridizable to a nucleic acid having a nucleotide sequence selected from the group consisting of:

- (a) SEQ ID NO: 4084;
- (b) a complement of SEQ ID NO: 4084; or
- (c) an RNA of (a) or (b), wherein U is substituted for T.

11. (Amended) An immunogenic composition for prevention or treatment of an *B. fragilis* infection comprising a nucleic acid of Claim 5 and a pharmaceutically acceptable carrier.

12. (Amended) An immunogenic composition of Claim 11, further comprising an adjuvant.

13. (Amended) An immunogenic composition of Claim 11, further comprising one or more additional components.